



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER OF PATENTS AND TRADEMARKS
Washington, D.C. 20231
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/492,728	01/27/2000	Rex A. Naden	73169-TS019	1299

7590 07/08/2002

PILLSBURY WINTHROP LLP
INTELLECTUAL PROPERTY DEPARTMENT
1600 TYSONS BOULEVARD
MC LEAN, VA 22102

EXAMINER

YENKE, BRIAN P

ART UNIT PAPER NUMBER

2614

DATE MAILED: 07/08/2002

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/492,728

Applicant(s)

NADEN, REX A.

Examiner

BRIAN P. YENKE

Art Unit

2614

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-22 is/are pending in the application.
- 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) ____ is/are allowed.
- 6) ☒ Claim(s) 1-22 is/are rejected.
- 7) ☐ Claim(s) ____ is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on ____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on ____ is: a) ☐ approved b) ☐ disapproved by the Examiner.
If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. ____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
* See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s) ____.
- 4) ☐ Interview Summary (PTO-413) Paper No(s). ____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____.

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in-

(1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effect under this subsection of a national application published under section 122(b) only if the international application designating the United States was published under Article 21(2)(a) of such treaty in the English language; or

(2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that a patent shall not be deemed filed in the United States for the purposes of this subsection based on the filing of an international application filed under the treaty defined in section 351(a).

Claims 1-5, 7, 10, 12, 14-21 are rejected under 35 U.S.C. 102(e) as being anticipated by Noonan et al., US 5,926,208.

In considering claims 1-2, 4, 7, 10, 12, 14-15, 17 and 19-21

1) the claimed projection system including a transceiver and a controller **is met by computer system 1002 Fig 1a, 2 which includes a communication interface module 1018 to transmit/receive/control data via to/from video camera 1000 (Fig 2) and also to/from communication link 1008 (which includes a standard phone cable, ISDN, LAN, cable modem, cellular modem or a satellite connection) (col 5, line 25-28) which displays the image on screen 1004 (Fig 1a), system 1002 also includes a decompression module 1020, user interface module 1016 and local memory module 1014.**

2) the claimed a first data appliance including a transceiver...**is met by video camera 100 (Fig 1a, 2) which includes video communication processor 1024 (transceiver) which sends graphical information to computer system 1002 to be display on screen 1004 under control of system 1002, where communications module 1018 controls the receiving/transmitting of information to/from computer system 1002 via data lines 1006 and 1008. The received compressed data is decompressed using decompression module 1020 or the received compressed data can also be sent to a remote system 1010 for viewing by sending the compressed data along communication link 1008 (col 4, line 46-65).**

In considering claims 3, 5, 16 and 18,

1) the claimed transceiver of the second data appliance transfers a second signal to the transceiver of the projection system...**is met where remote control computer 1010 along with remote camera 1011 transfer a signal to main computer system 1002 via communication link 1008 received by communication interface module 1018 (Fig 2)**

2) the claimed transceiver of the projection system transfers the second signal to the transceiver of the first data appliance **is met where computer system 1002 transmits the received signal via remote control computer 1010 to video camera 1000 along communication line 1006**

3) the claimed transfer of the second signal from the second data appliance to the first data appliance is controlled by the controller **is met where the reception of the**

transferred signal from remote control computer 1010 is controlled by communication interface module 1018 via communication link 1008.

Claim Rejections - 35 USC § 103

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 6, 8-9, 11, 13 and 22 are rejected under 35 U.S.C. 103(a) as being unpatentable over Noonan et al., US 5,926,208.

In considering claims 6 and 11,

- 1) the claimed first data appliance...**is met by video camera 1000 which includes a video communication processor 1024 (a programmable video chip) which comprises of RISC processor 1038 which includes a mux 610, a video processor 1036, DRAM controller 296 along with compression module SRAM 282, and memories 206/296, camera 1000 also includes memories 1033/1027, interface link device 1022 and video source 1030 (Fig 2)**
- 2) the claimed processing unit takes keyboard input from a local keyboard **is met by keyboard of host system 1002.**
- 3) the claimed processing unit takes memory graphics...**is met where DRAM controller 296 transfers uncompressed video from the input interface 211 to memory 140 via bus 294 and DRAM interface 292. Once, the processor 1036**

compresses video data, the DRAM controller transfers the compressed data from memory 140 to circuit 250.

However, Noonan remains silent on the use of a MUX providing graphics output to a MUX. Noonan does disclose a host system 1002 which is able to receive/transmit information from video camera 1000 or from other remote systems/cameras 1010, 1011 via communication link 1008. Noonan also discloses that based upon the data signal determines the type of compression or decompression that is performed, in order to transmit/receive the signal and/or display the signal.

The examiner takes "OFFICIAL NOTICE" in regards to a MUX (switch), where the multiplexer (switch) is used to receive an input from the processing unit and graphics chips and provide an output to the first data appliance.

The use of multiplexers or switches are conventional in the art, where a system/controller is able to select an appropriate scheme (compression/decompression) based on the type of data signal used, and the type of operation that will be carried out (display, transmit/receive).

Therefore, it would have been clearly obvious to one of ordinary skill in the art to utilize a MUX (switch), with Noonan which discloses a compression/decompression selection based on the type of data signal used and operation to be carried out in order to select the appropriate algorithm/scheme.

In considering claims 8-9, 13 and 22,

Noonen does remains silent on the graphics converter of the host system 1002 including an application-aware graphics chip that uncompresses data. Noonen discloses a host computer system 1002 which interacts with a host camera 1000 and also with a plurality of remote computer systems/cameras such as 1010/1011 (Fig 1b). Noonen discloses that based upon the received data either via communication line 1006 from video camera 1000 or from a remote computer/camera via communication link 1008, the appropriate compression/decompression occurs.

Noonen, does disclose a transceiver/controller (video communication 1 processor 1024) of video camera 1000 which compresses information received from host 1002 or remote systems 1010/1011 into an appropriate format, where a user input 1016 can also alter the compression scheme. The appropriate format, being one of H.261, MPEG 1, MPEG 2 or JPEG, (col 7, line 59-65) where the processor 1024 is a programmable chip (col 7, line 22-38) suitable for a variety of applications, i.e. at what bit rate to compress, how much compression and how much information to throw away, which colors to affect any other parameters the user wishes to customize for compression (col 10, line 11-51). The decompression module that would be used if a signal is compressed is decompression module 1020 of system 1002, which decompresses the signal according the appropriate compression scheme performed in processor 1024.

Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention, to modify Noonen which uses a processor 1024 for

Art Unit: 2614

compression and a separate decompression module 1020, where processor 1024 is a programmable compression chip suitable to perform an appropriate compression scheme on data based on the data received and users parameters, with a decompression application included in the chip, to provide the local system 1002 with an image/data which requires no conversion (decompression) and is ready for display.

Conclusion

3. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure:

US 5,975,531, Rebec et al, discloses a High Speed Teleconference System that includes an encoding unit that encodes/compresses a first signal to produce a first compressed encoded signal, which includes a multiplexer that receives/splits the signal into at least two compressed signals;

US 5,933,597, Hogan, discloses a system for sharing objects between local and remote terminals in a teleconference system;

US 5,832,065, Bannister et al., disclose a synchronous voice/data message system that allows parties to communication both voice/graphic information or other data interactively or to retrieve in the exact sequence it was created;

US 6,035,350, Swamy et al., discloses a detachable I/O device with built-in RF/IF functionality to facilitate a remote presentation;

US 6,314,302, Haferbeck et al., discloses a telecommunication system for supporting multimedia services via an interface and a corresponding subscriber terminal.

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Brian Yenke whose telephone number is (703) 305-9871. The examiner work schedule is Monday-Thursday, 0730-1830 hrs.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's Supervisor, John W. Miller, can be reached at (703)305-4795.

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks
Washington, D.C. 20231

or faxed to:

(703) 872-9314

Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive, Arlington, VA, Sixth Floor (Receptionist). Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the

Application/Control Number: 09/492,728
Art Unit: 2614

Page 9

Technology Center 2600 Customer Service Office whose telephone number is
(703) 305-4700.

B.P.Y.

25 June 2002


JOHN MILLER
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2600